

People Counter - LoRaWAN®

Quick start guide

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IR Receiver

Recognisable by the arrows indicating Counter A and B on the label on the backside.

The IR receiver is the part which registers counts.

Communication and configuration of the product is done on this device.

IMBuildings LoRaWAN® people counters come pre-configured with Appkey and AppEUI/JoinEUI.

This information is to be supplied by your supplier.

For configuration of the device you can use our Android App or use downlink communication to the device.

For more information, tools and downloads visit the following URL:

support.imbuildings.com/docs

IR Transmitter

The IR transmitter sends out an active IR signal which is monitored by the IR receiver.

1 - Mounting the devices

Mount using adhesives or use the included mounting brackets in case you want to use screws for mounting.

Place the devices facing each other at the desired height. For the best results place the IR transmitter and IR receiver between 150 and 160 cm from the floor.

The IR transmitter and IR receiver must be facing each other and have a clear sight without any obstructions.

2 - Placing the batteries

Please use the correct batteries for this product. The required batteries are 1.5V AA Alkaline batteries, also identified as LR6.

We can recommend VARTA Industrial Pro batteries

When placing the batteries please check the polarity.

At the moment the batteries are placed the device will power on immediately and start functioning. Also the status LED will blink.

Please press the 'Activate' button on the IR transmitter to activate the IR signal. The status LED will blink twice.

3 - Check the alignment

To check the alignment you can slide a magnet over the top side of the IR Receiver to enable the alignment mode.

When the status LED is green the alignment is ok.

4 - Start counting

Once the people counter is installed and aligned you can start collecting count data.

Please note: that under normal operation the counter indicator LEDs remain active for approximately 2 minutes after a connection has been established. Once the LED turns off no indication of activity is given, unless activated again using the magnet area.

This document applies to the following products:

IB010-011.00, IB010-011.02, IB010-012.00, IB010-012.02, IB010-013.00, IB010-013.02, IB010-014.00, IB010-014.02, IB010-016.00, IB010-016.02

For more detailed information about this and other products please check the following website:

support.imbuildings.com/docs

or scan the QR code for a direct link to more detailed information about the People Counter - LoRaWAN®.



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Declaration of Conformity

*Declaration of Conformity
accordance with the Radio Equipment Directive 2014/53/EU
(RED)*



The Manufacturer IMBuildings B.V.
Declares, that the product People Counter - LoRaWAN

complies with the essential requirements of the Radio Equipment Directive, when used for its intended purpose.

Harmonised standards applied:

EN 300-220-1 V3.1.1 (2017-02)
EN 300 220-2 V3.1.1 (2017-02)
EN 301 489-1/3 V2.2.0 (2017-03)
EN 62368-1: 2014/A11:2017
EN 62479:2010

The equipment mentioned above meets the requirements of the directive of the European parliament and Council of the European Union of June 8, 2011, for Restriction of the use of certain hazardous substances in electronic equipment.

Specifications

Ambient operating temperature 0-40°C at 0-95% non condensing humidity.
Nominal Voltage 3V
Power supply 2x AA 1.5V batteries*
Maximum power consumption 60mA

**The manufacturer's instructions for the respective batteries need to be observed*

Declaration of origin

This product is produced in the European Union, namely in The Netherlands, and satisfies the rules of origin governing Community Customs Code according to Regulation (EEC) 2913/92 articles 22/26 and/or Regulation (EEC) 2454/93 annex 10 and 11.

Safety instructions

Read, follow, and keep these instructions

1. Heed all warnings
2. Only use attachments/accessories specified by the manufacturer

! WARNING: To reduce the risk of fire and/or electric shock, do not expose this product to rain or moisture.

! WARNING: Do not use this product in a location that can be submerged in water.

Battery Warning (if applicable)

1. Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.
2. Purchase batteries recommended by the manufacturer.
3. The manufacturer's instructions for the respective batteries need to be observed.

Electrical Safety Information (if applicable)

There are no operator serviceable components in this device, service and repair should always be done by qualified professionals

Radiation Exposure Statement

To comply with the FCC RF Exposure requirements for an uncontrolled environment, the IR Receiver with the integrated LoRaWAN transceiver must be installed and operated with a minimum separation distance of at least 20 cm to any human person during normal operating conditions.

The following is applicable for devices with the FCC mark.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Operating frequency : 902.3 - 927.5 MHz

Max. RF Output Power : 81 mW

The product should not be disposed of with other household waste. Users should contact their supplier for recycling options according to local laws.

IMBUILDINGS has taken reasonable measures to provide information in this manual that is complete and accurate, however IMBuildings reserves the right to change any information and/or specification without prior notice.

This guide is produced by the manufacturer in the English language.

Operators may elect to translate the guide.

any translated version of the guide is created purely for the convenience of the operator and end user, and the english language version is controlling and shall prevail.

IMBUILDINGS hereby disclaims all liability for any translated versions of this guide created by an operator, for but not limited to, the content of any translated guide, the accuracy of the translation and any issues arising as a result of the translated guide, whether they be of an end user nature, legal nature or otherwise.

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